141

Office de la Propriété intellectuelle du Canada

Un organisme d'Industrie Canada

Canadian Intellectual Property Office

An agency of Industry Canada CA 2498954 A1 2003/11/27

(21) 2 498 954

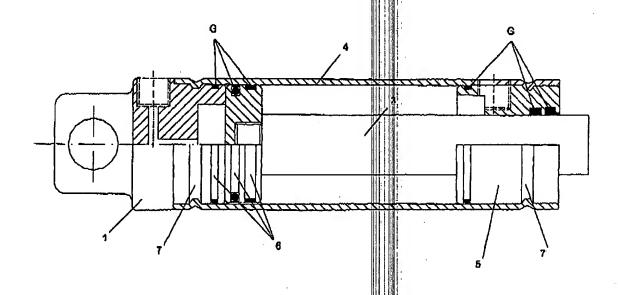
(12) DEMANDE DE BREVET CANADIEN CANADIAN PATENT APPLICATION

(13) A1

- (86) Date de dépôt PCT/PCT Filing Date: 2003/04/23
- (87) Date publication PCT/PCT Publication Date: 2003/11/27
- (85) Entrée phase nationale/National Entry: 2004/11/09
- (86) N° demande PCT/PCT Application No.: IT 2003/000255
- (87) N° publication PCT/PCT Publication No.: 2003/097259
- (30) Priorité/Priority: 2002/05/15 (RM2002A000268) IT
- (51) Cl.Int. Vint.Cl. B21D 39/04, F15B 15/14, F16J 10/02
- (71) Demandeur/Applicant: KARBOREK SRL, IT
- (72) Inventeurs/Inventors: CANDELLERI, TOMMASO, IT; ROVINA, GIOVANNI, IT. CARCAGNI, DONATO, IT
- (74) Agent OGLVY RENAULT

(54) Titre : PROCEDE DE FERMETURE D'UN CYLINDRE HYDRAULIQUE PNEUMATIQUE ET/OU

OLEOPNEUMATIQUE ET MOYENS DE MISE EN OEUVRE
(54) Title: METHOD FOR CLOSING A HYDRAULIC PNEUMATIC AND/ORIOLEOPNEUMATIC CYLINDER AND MEANS FOR IMPLEMENTING THEREOF



(57) Abrégé/Abstract:

Method for manufacturing a jack or hydraulic, pneumatic and/or olepneumatic dylinder of the kind comprising a tubular cylindrical body (4) at the ends thereof a bottom (1) and a head (5) are fastened, inside thereof a piston (2) slides integral with a rod (3), characterized in that in order to fasten in an irremovable way the head (5) and the bottom (1) to the tubular body (4) of the jack without threading and/or welding procedures, it provides implementing at the land of the tubular body a controlled plastic deformation extended to the whole thickness of the tubular body itself, apt to locally deform the ends thereof by generating on each of them at least a circumferential ring radially projecting inwards so as to insert in at least a specific groove (?) arranged on the bottom (1) and on the head (5) inserted in the tube itself, respectively, so as to lock them in site. Said plastic deformation guarantees the mechanical seal of the coupling between tube and bottom and tube and head.

Canada da

http://opic.gc.ca · Ottawa-Hull KlA 0C9 · http://cip

OPIC - CIPO 191

